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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/520,330	01/05/2005	Hiroyuki Hamada	10873.1598USWO	5251	
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Minneapolis, MN 55402			ART UNIT	PAPER NUMBER	
			1655		

DATE MAILED: 04/21/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/520,330	HAMADA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Paul C. Martin	1655				
The MAILING DATE of this communication app						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on <u>01 March 2006</u> .						
2a)⊠ This action is FINAL . 2b)☐ This	This action is FINAL . 2b) This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1 and 3-9</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1 and 3-9</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) ☐ The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	atent Application (PTO-152)				

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DETAILED ACTION

Claims 1 and 3-9 are pending in this application.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office Action.

All objections and rejections not repeated in the instant Action have been withdrawn due to Applicant's response to the previous Action.

Applicant's arguments filed 03/01/06 have been fully considered but they are not deemed to be persuasive.

Claims 1 and 3-9 remain rejected under 35 U.S.C. 103(a) as being unpatentable over Chen et al. (U.S. 5,670,057) in view of Milner (6,077,836) and Kelton et al. (1978).

This rejection is maintained for reasons of record set forth in the Action mailed 11/15/05, repeated below (extended to new claims as necessitated by the applicant's amendment filed 03/01/06):

Chen et al. teaches a method for testing peritoneal function in order to evaluate a condition of a peritoneal dialysis patient by performing a fluid infusion and fluid drain of a predetermined amount of peritoneal dialysis fluid, analyzing the drain fluid in order to asses the amount of peritoneal dialysis fluid that is retained within the abdominal cavity of a patient, and the concentration of monitored solutes (urea, creatinine, and glucose) in the peritoneal dialysis fluid; performing a peritoneal equilibrium test (PET) and performing a blood test during the PET in order to assess a change in condition in the blood. (Column 2, Lines 14-52).

Chen et al. does not teach the repeated (at least three times for each fluid) fluid infusion and drain in alternation of peritoneal dialysis fluids having different osmotic pressures.

Chen et al. does not teach the monitoring of the solutes: total protein, albumin, sodium and chlorine, or the extrapolation of the albumin concentration based on total protein concentration in the drain fluid.

Chen et al. does not teach the step of performing fluid infusion and fluid drain a plurality of times using dialysis fluids having the same osmotic pressure, then the dwell times are different each time.

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Chen et al. does not teach that the peritoneal dialysis fluid whose osmotic pressure is relatively higher is infused either first or last in the step of repeatedly performing fluid infusion and drain in alternation for peritoneal dialysis fluids having different osmotic pressures.

Milner teaches the repeated infusion and drain (more than 3 times) of two alternate peritoneal dialysis fluids having different osmotic pressures (Column 23, Lines 54-59), the step of performing fluid infusion and fluid drain a plurality of times using dialysis fluids with the same osmotic pressure with the dwell times being different each time (Column 29, Lines 43-49 and Column 30, Lines 20-25) and the step of either infusing first or last (Column 23, Lines 54-59) the peritoneal dialysis fluid with the relatively higher osmotic pressure, and the monitoring of the solutes: urea, creatinine, total protein, albumin, and glucose. (Column 30, Lines 65-67).

Kelton *et al.* teaches a method for testing peritoneal function wherein the monitored solutes are: total protein, albumin, glucose, creatinine, urea, sodium and chlorine. (Pg. 69, Table 1)

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It would have been obvious to the person of ordinary skill in the art at the time of the invention to combine the method of Chen et al. for evaluating the condition of a peritoneal dialysis patient using a single infusion/drain of a single peritoneal dialysis fluid, PET, and blood test with the method of Milner discussed supra and the specific solutes monitored by Kelton et al. because the ordinary artisan would have recognized the value of using peritoneal dialysis solutions of differing osmotic pressures based on the changing needs of individual patients, such changes often occurring over the span is just a few hours. The constant monitoring of specific solutes in the drain solution, combined with PET and a blood test all act as status monitoring steps of peritoneal dialysis of the patient and the administration of a plurality of infusion/drain steps for each dialysis fluid of different osmotic pressure, or the same osmotic pressure, wherein the fluid with the relatively higher osmotic pressure can either administered first or last can be tailored by the ordinary artisan to meet the clinical needs of each individual patient. The extrapolation of the albumin concentration of the drain fluid based on the total protein concentration of the drain fluid would have been obvious to the ordinary artisan because albumin is a protein and it is well known in the art that as total protein of a solution vs. a control solution increases it can be deduced that its constituent proteins concentrations will likewise increase.

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Response to Arguments

The Applicant argues that Chen fails to teach performing the PET last of all steps and performing a blood test once either before or during the PET. It is noted that the method of Chen discloses an apparatus and method for automatically performing a PET test and further that Chen teaches the taking of a *single* blood sample during the performing of a PET test (Column 2, Lines 14-32).

The Applicant argues that Milner discloses a method involving the taking of multiple blood samples however, in the above rejection the Milner reference was not relied upon for any teaching relating to performing a blood test. However, the Examiner notes that Milner does teach the performance of a blood test as the last of all steps (Column 24, Lines 1-3). Applicant further argues that Kelton fails to disclose the performing of a PET test, however as above, the reference was only relied upon for a single teaching related to specific monitored solutes. It is further noted that Kelton teaches the performance of a blood test last of all steps (Pg. 67, Column 1, Lines 23-24).

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Since all three references are drawn toward methods of monitoring and performing peritoneal dialysis and share many similarities in terms of solutions, techniques and scope, it is the Examiner's opinion that one of ordinary skill in the art would have recognized that the teachings of Chen could be combined with those of Milner and Kelton as above and that further the ordinary artisan would have been motivated to perform the PET before the blood test, the blood test being last of all steps as a way to minimize the invasiveness, inconvenience and discomfort of multiple blood taking while maximizing the window in which the most relevant blood serum chemistry is present.

Conclusion

No Claims are allowed.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul C. Martin whose telephone number is 571-272-3348. The examiner can normally be reached on M-F 8am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terry McKelvey can be reached on 571-272-0775. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Paul Martin Examiner Art Unit 1655

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04/11/06